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FEB 21 2003

EQUALIZER PERFORMANCE ENHANCEMENTS FOR BROADBAND WIRELESS APPLICATIONS

Pollmann, et al.

Appl. No.: 09/800,268 Atty Docket: ENSEMB.003A

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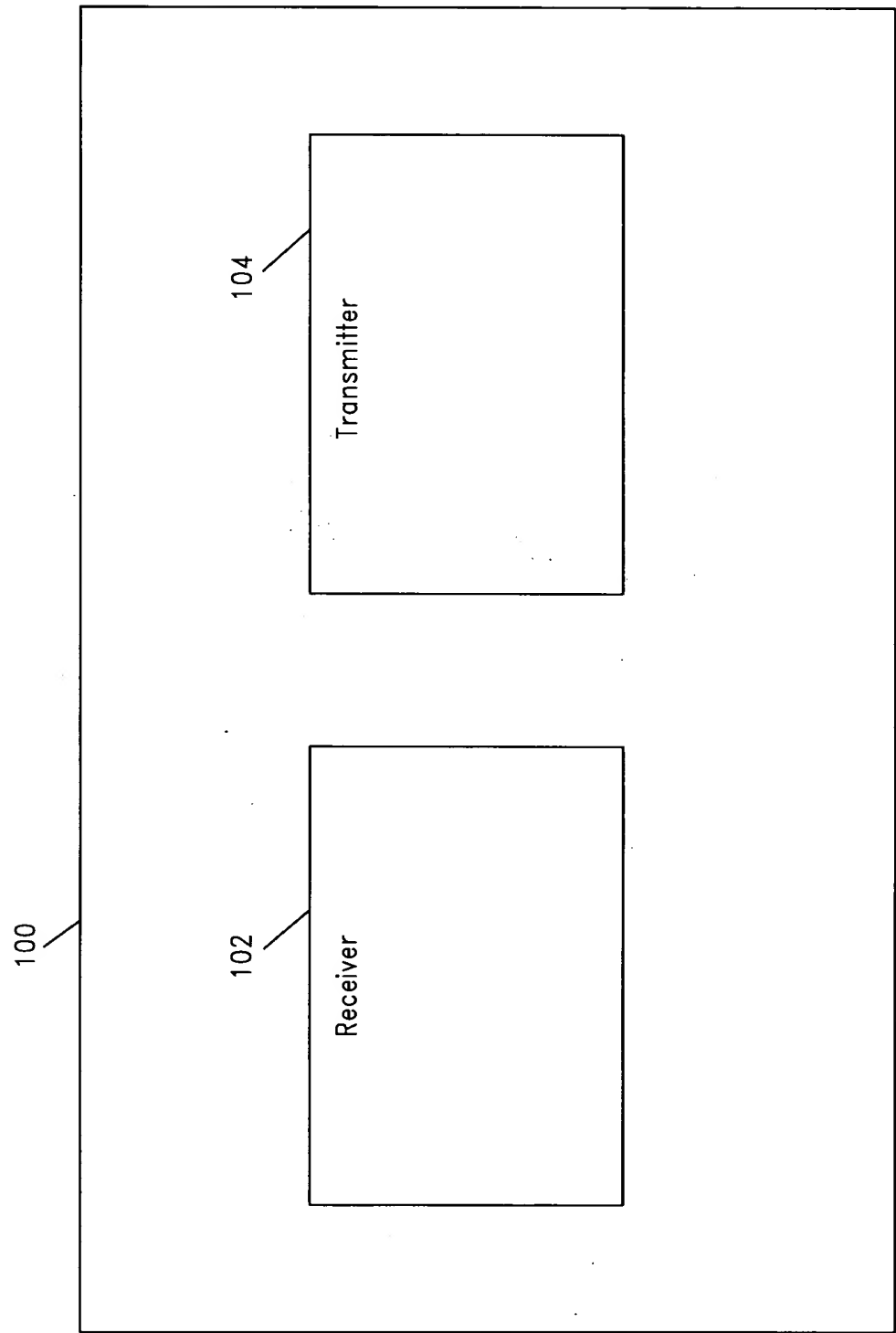
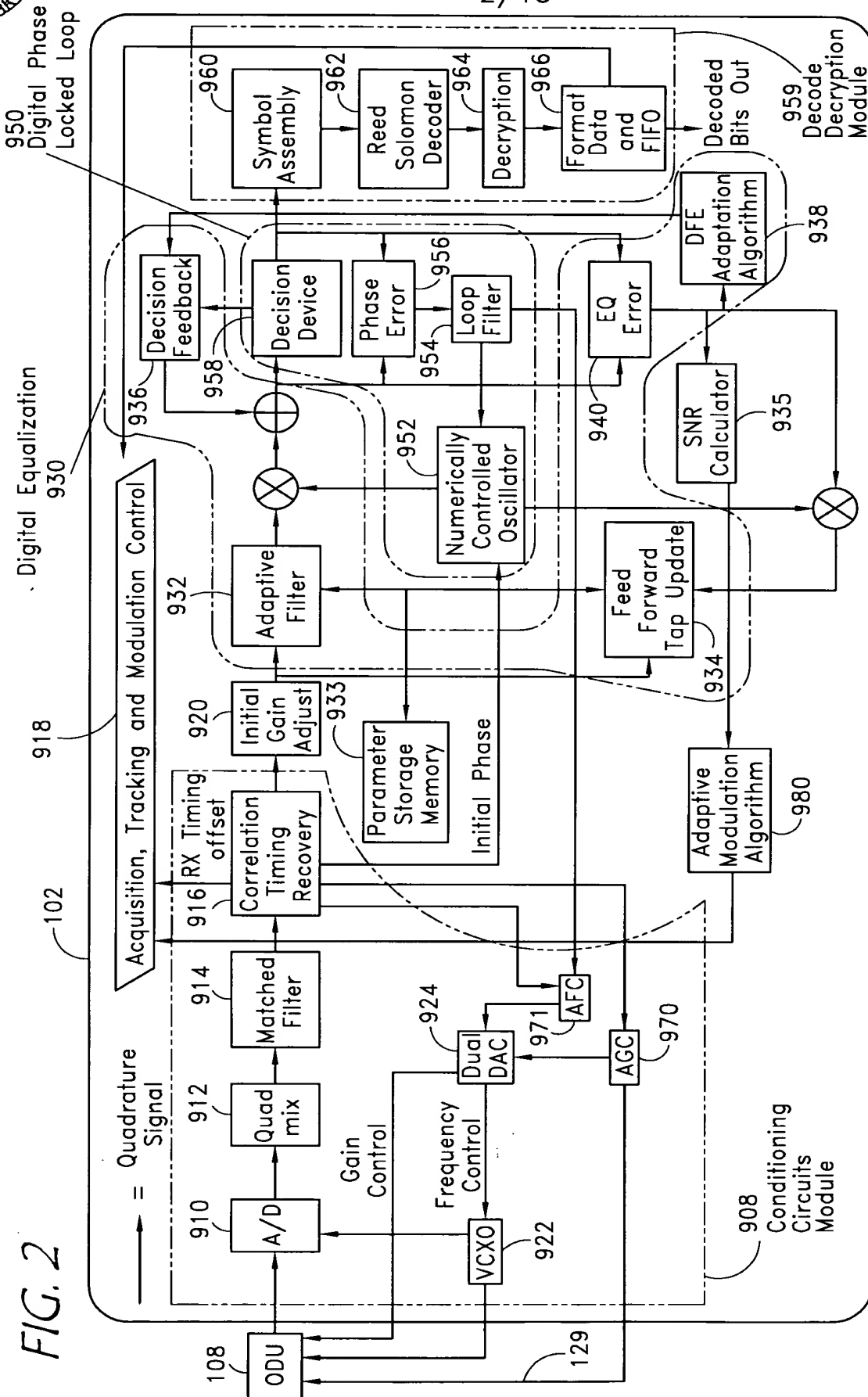


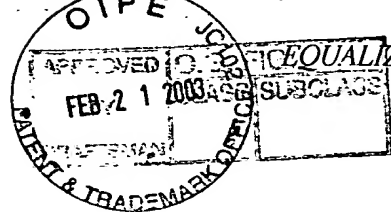
FIG. 1

(14)

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FIG. 2

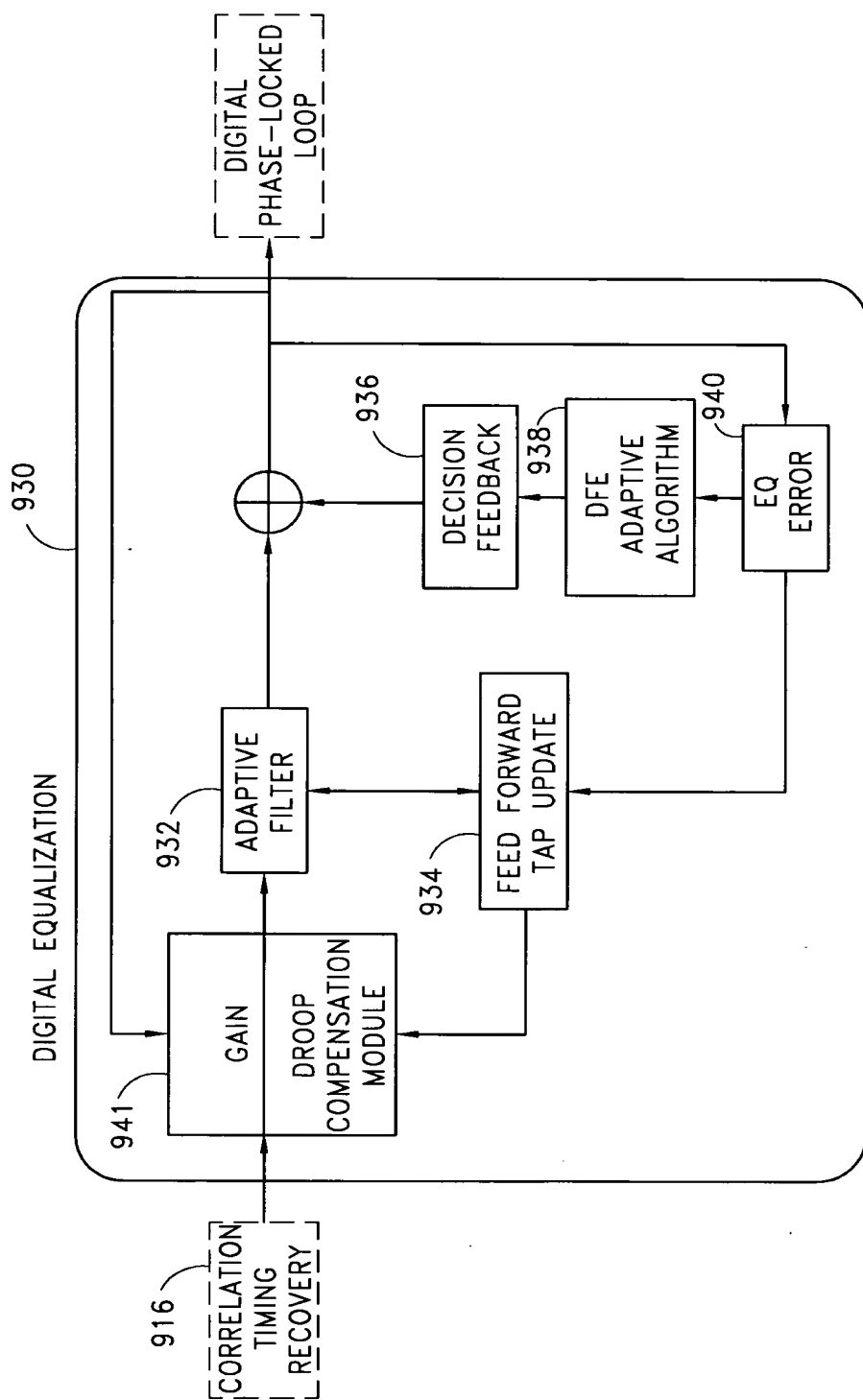




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FIG. 3





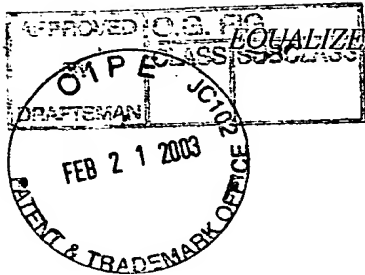
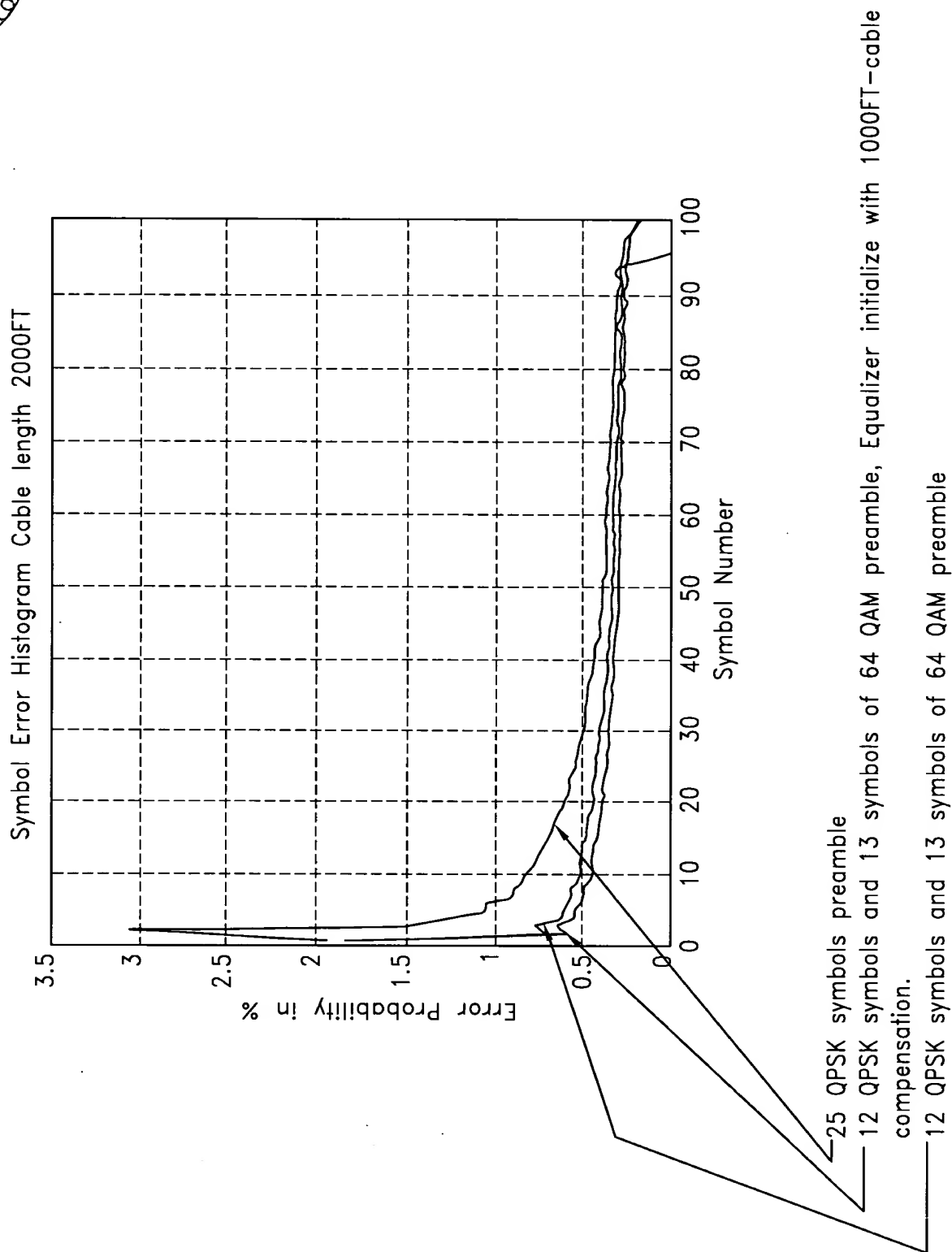


FIG. 5



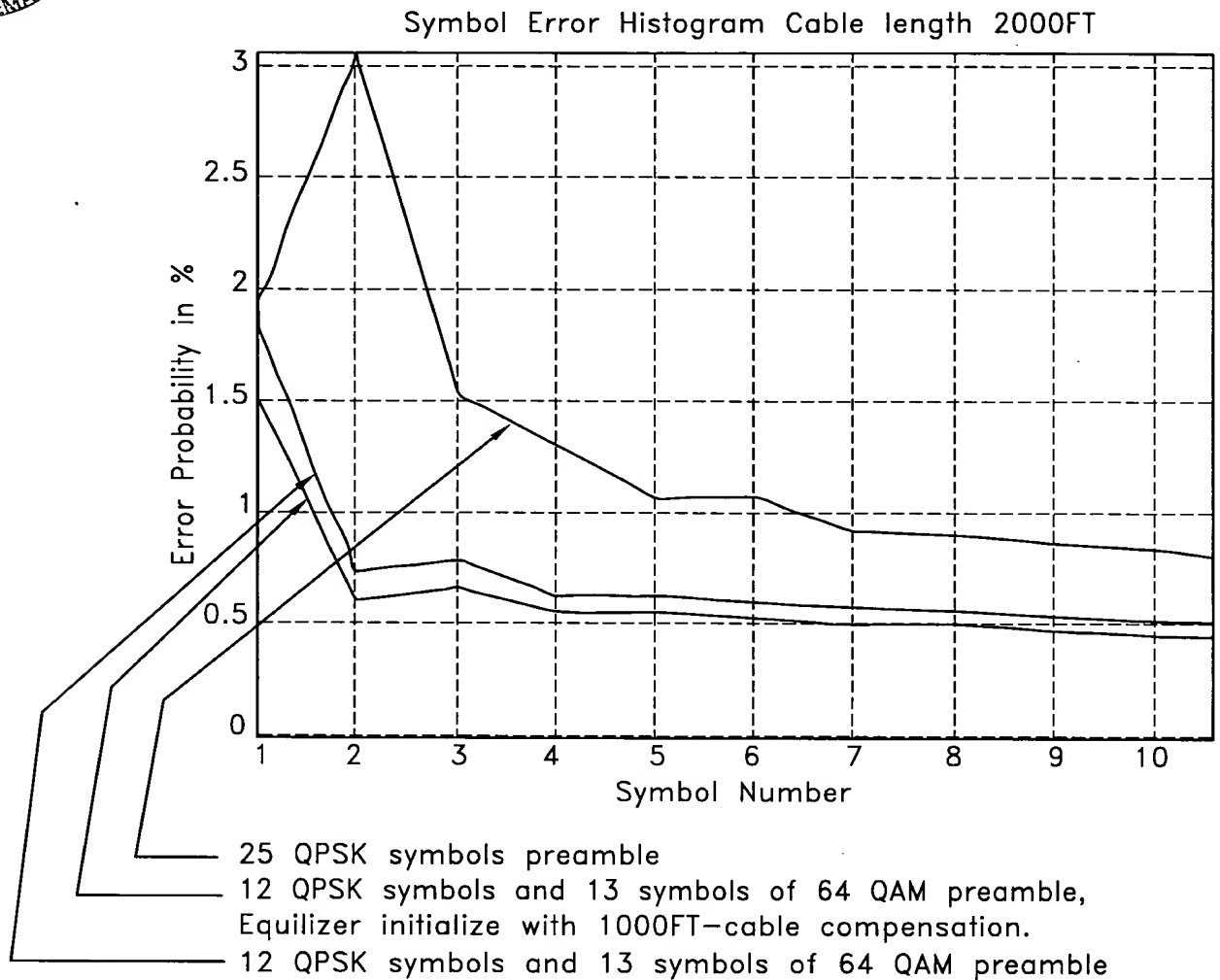
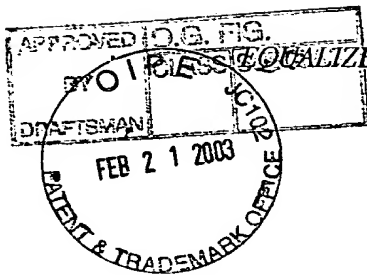
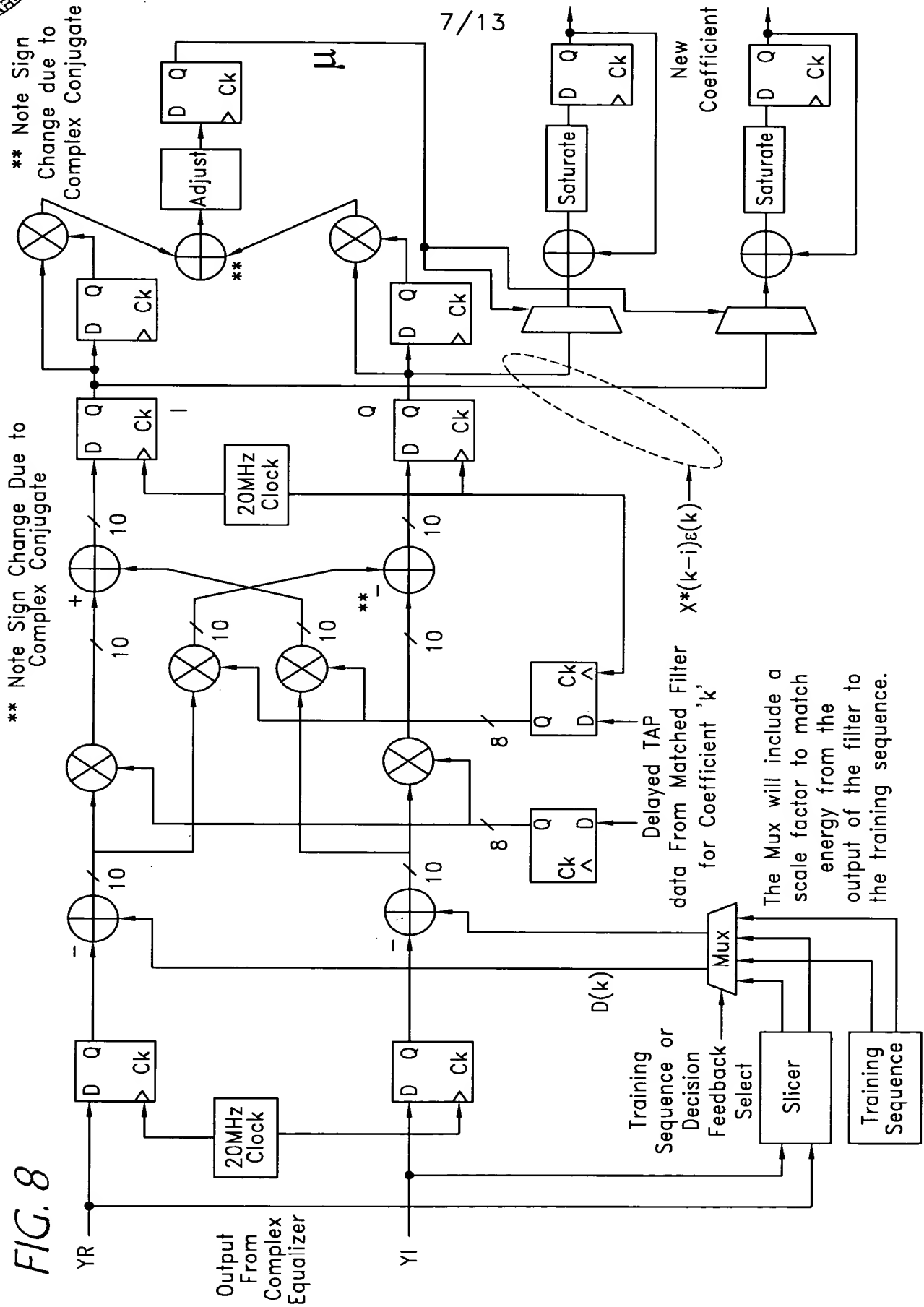
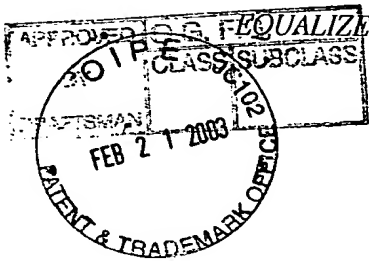


FIG. 6

Cable Length	BER with Preamble Type 1	BER with Preamble Type 2	RS Error Rate with Preamble Type 1	RS Error Rate with Preamble Type 2
1000FT	5.42e-4	4.22e-4	6e-6	No Error over a million bursts.
2000FT	8.88e-4	6.55e-4	1.2e-4	1.6e-5

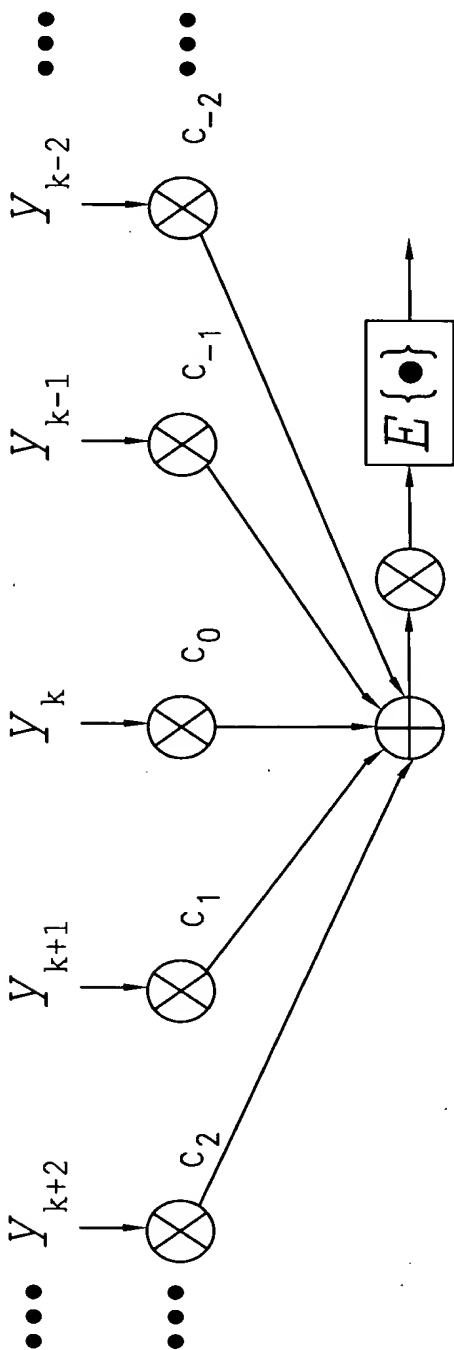
FIG. 7





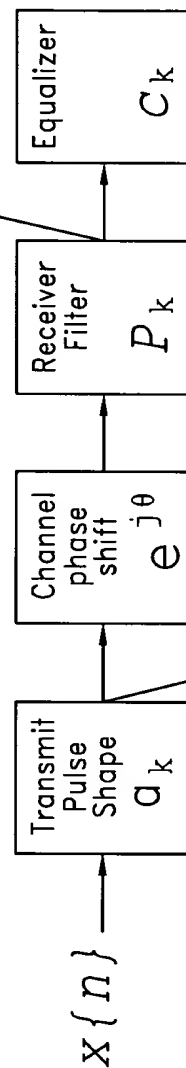
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$$Y_k = e^{j\theta} \sum_{j=-2N}^{2N} X_{k-j} h_j,$$

$$h_k = a_k * P_k$$



$$S_k = \sum_{j=-N}^N X_{k-j} a_j$$

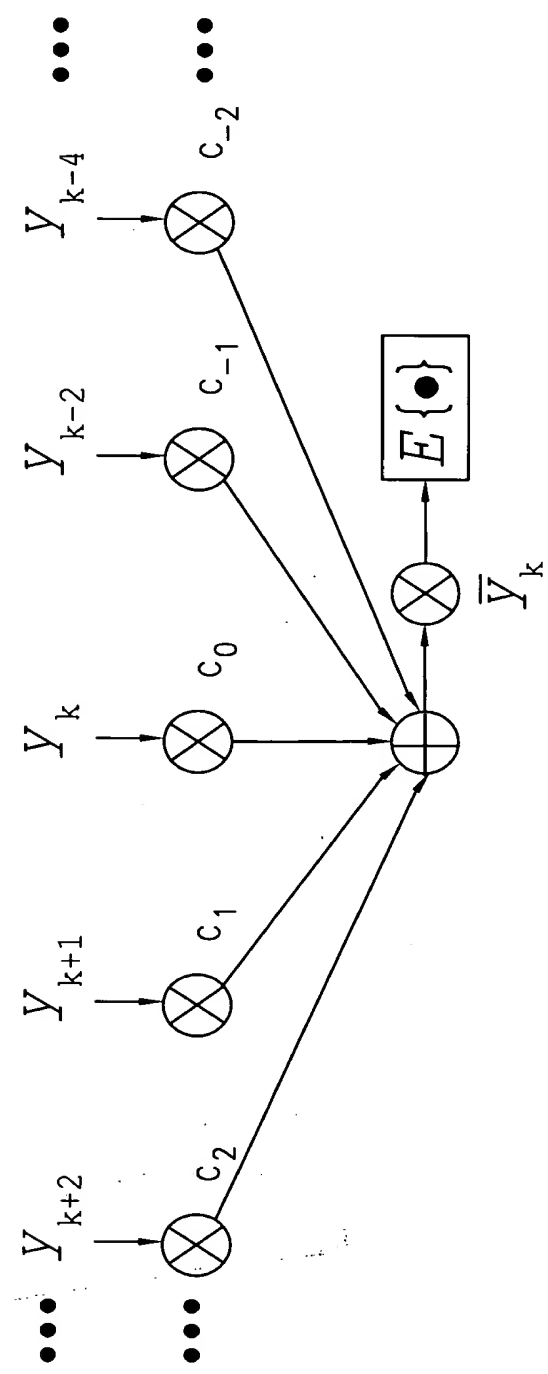
FIG. 9



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FIG. 10



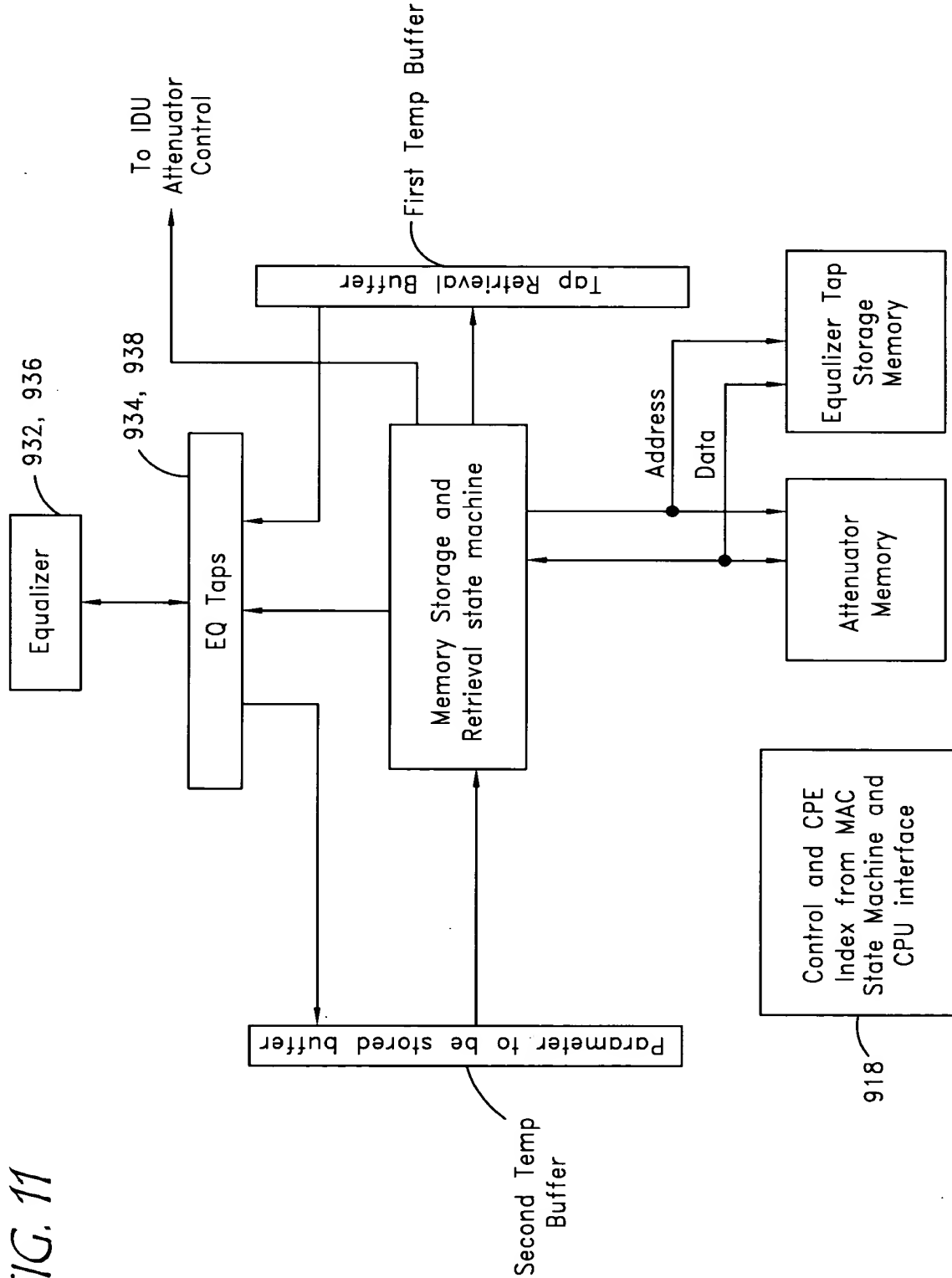
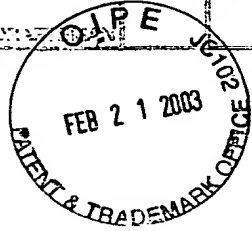
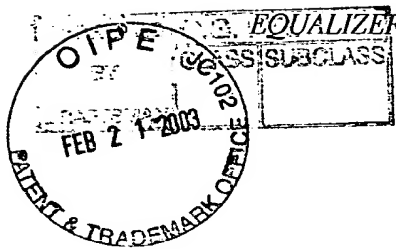


FIG. 11



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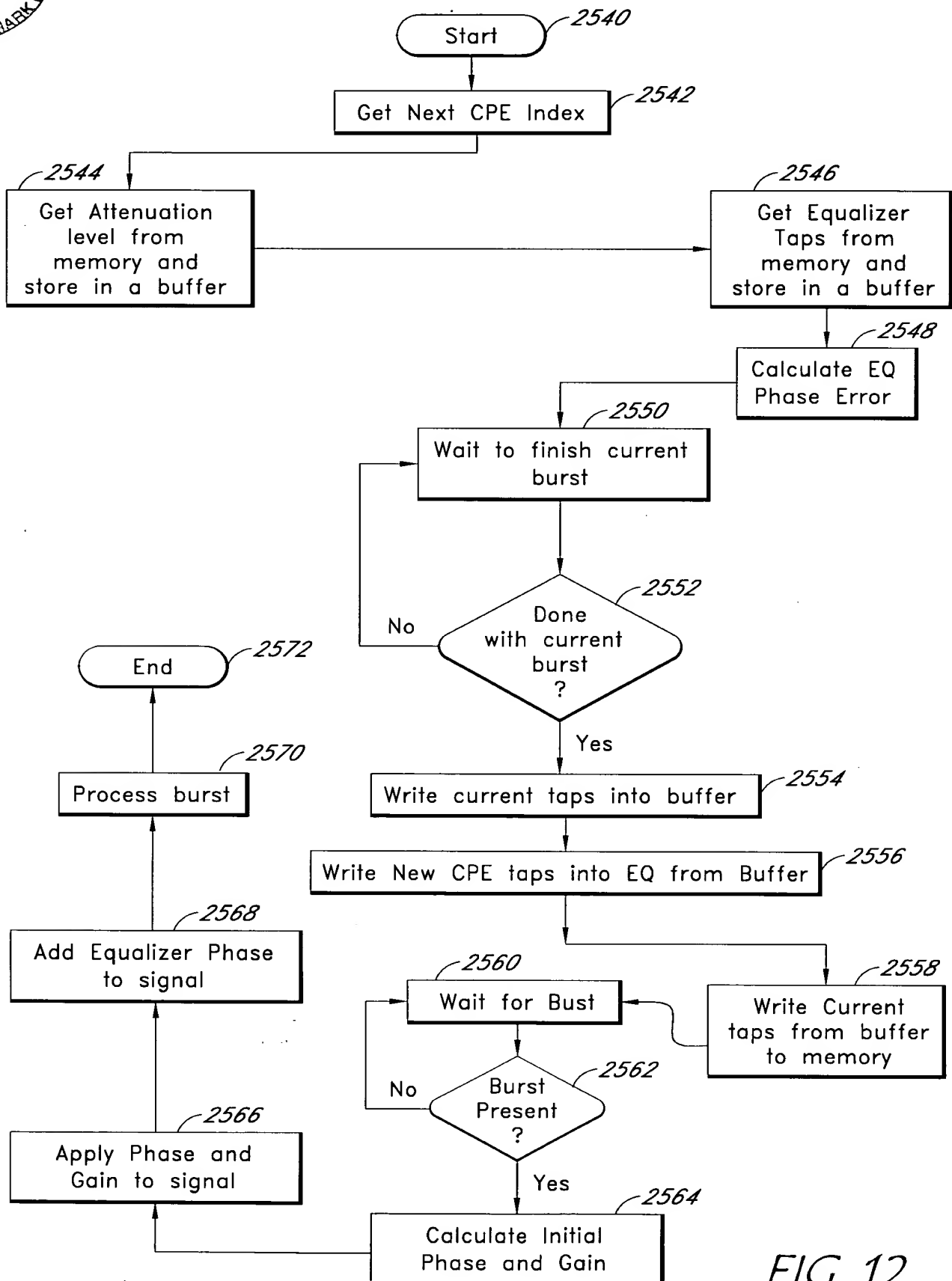
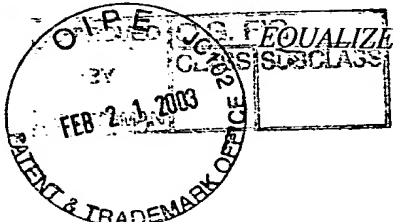


FIG. 12



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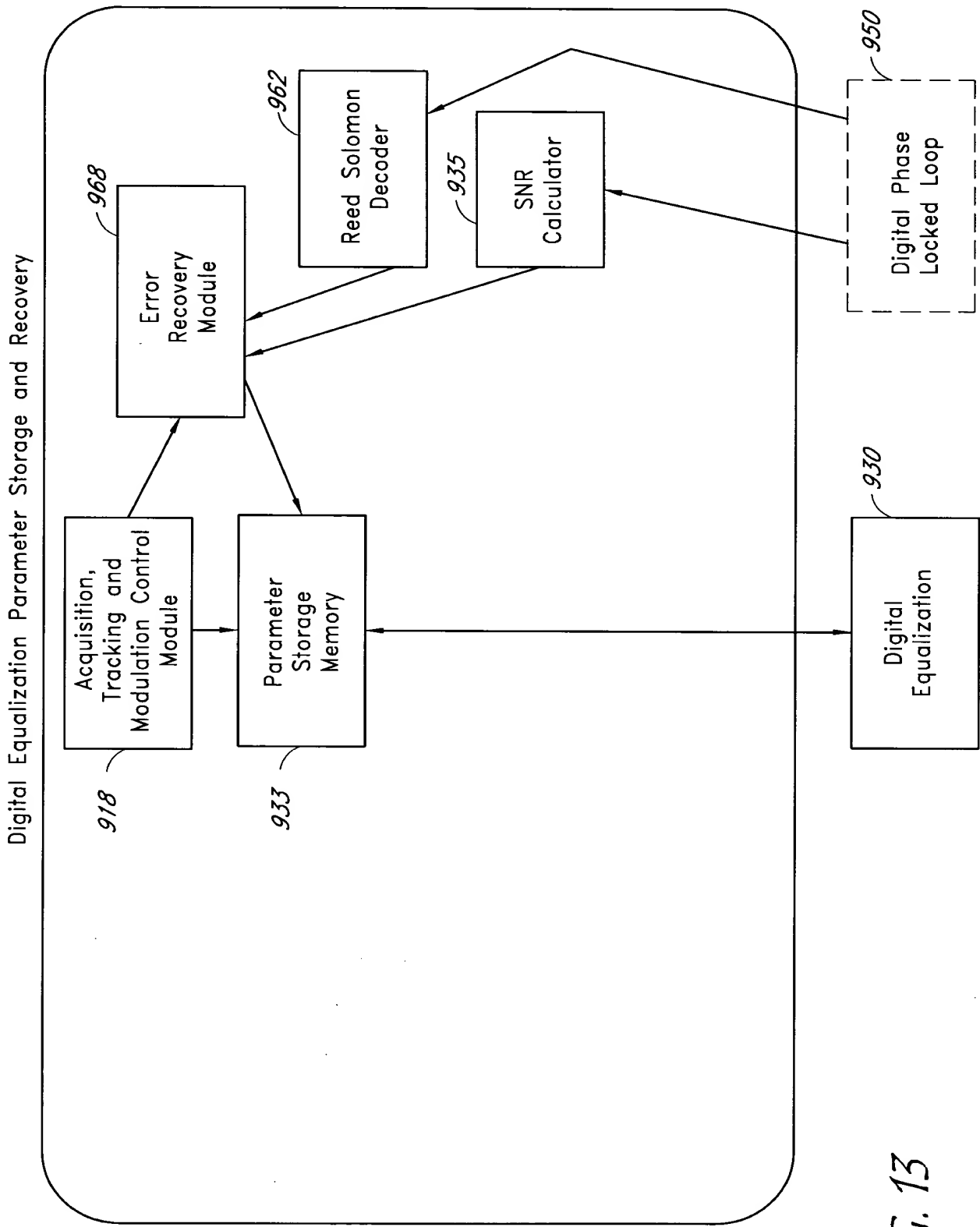


FIG. 13

FIG. 14